

MATERIAL SAFETY DATA SHEET
U.S. DEPARTMENT OF LABOR - OSHA'S HAZARD COMMUNICATION STANDARD
(Utilized to comply with 29 CFR 1910.1200)

Product Name & Manufacturers Identity

COUNTERIFFIC®

Stone Care International, Inc.
P.O. Box 703
Owings Mills, MD 21117
1-800-839-1654 410-783-0045

H.M.I.S. Rating

Health: 1
Flammability: 1
Reactivity: 0

For Medical Emergencies, call Infotrac at 1-800-535-5053
For International Emergencies, call 1-352-323-3500

PAGE 1 OF 5

MATERIAL

READY TO USE
DISINFECTANT AND SANITIZER

DOT HAZARD CLASSIFICATION

Non-hazardous

DOT SHIPPING NAME

Not regulated

DOT LABEL

None

DATE ISSUED: 6/2001

DATE OF LAST REVISION: 9/2002

FORMULA Mixture

CAS. NO. Mixture

CHEMICAL NAME (Active) mixture of N,N-Dialkyl-N,N-dimethylammonium Chloride and
N-Alkyl-N,N-dimethyl-N-benzylammonium Chloride

***** I - INGREDIENTS *****

APPROXIMATE

WEIGHT % TWA/TLV

N,N-Dialkyl (C ₈₋₁₀) -N,N-dimethylammonium Chloride (CAS No. 68424-95-3)	0.028	None established
N-Alkyl (C ₁₂₋₁₆) -N,N-dimethyl-N-benzylammonium Chloride (CAS No. 68424-85-1)	0.018	None established
Water (CAS No. 7732-18-5)	99.9	None established

***** II - PHYSICAL AND CHEMICAL PROPERTIES *****

APPEARANCE Clear liquid, color depends
on optional dye added

pH 6.4

ODOR Slightly sweet

VISCOSITY 0.66 Cst @ 20°C

MELTING OR FREEZING POINT 0°C

BOILING POINT 100°C

VAPOR PRESSURE (mm Hg) Not known

VAPOR DENSITY (Air=1) Not known

SPECIFIC GRAVITY (Water=1) 1.0 @ 25°C

PERCENT VOLATILE (by weight) 99.9

SOLUBILITY IN WATER Soluble

EVAPORATION RATE (Butyl Acetate=1) Not known

***** III - FIRE AND EXPLOSION INFORMATION *****

FLASH POINT >200°F

AUTO IGNITION TEMPERATURE Not known

LOWER EXPLOSION LIMIT (%) Not applicable

UPPER EXPLOSION LIMIT (%) Not applicable

EXTINGUISHING MEDIA FOAM

ALCOHOL FOAM X CO₂ X

DRY CHEMICAL X

WATER X

OTHER

SPECIAL FIRE FIGHTING PROCEDURES:

Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.
Cool fire-exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion are toxic

ROUTES OF ENTRY - SKIN CONTACT X EYE CONTACT X
INHALATION X INGESTION

No human overexposure information found for this material. Based upon the available toxicity information for related materials, it is anticipated that direct contact will produce very mild to essentially no eye or skin irritation.

OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS: No effects indicated.

Eyes: Flush eyes with large amounts of running water for several minutes. Seek medical attention if irritation develops.

Skin: Wash affected areas with plenty of water and soap, if available, for several minutes. Seek medical attention if irritation develops.

Ingestion: If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person.

Inhalation: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

NATIONAL TOXICOLOGY PROGRAM - No
I.A.R.C. MONOGRAPHS - No
OSHA - No

STABILITY: STABLE: Yes UNSTABLE CONDITIONS TO AVOID: None known

Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines and other organic materials, and oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID
MAY OCCUR	WILL NOT OCCUR X	None known

WATER	OTHER	X	Strong oxidizing or reducing agents.
--------------	--------------	---	--------------------------------------

Caution! Floors may become slippery. Wear appropriate protective equipment and respiratory protection where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

***** VII - PERSONAL PROTECTION INFORMATION *****

ENGINEERING CONTROL

In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

RESPIRATORY PROTECTION

In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

PROTECTIVE GLOVES

Rubber or neoprene, when needed to prevent skin contact.

EYE PROTECTION

Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

OTHER PROTECTIVE EQUIPMENT

Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), to prevent skin contact.

***** VIII - STORAGE AND HANDLING *****

PRECAUTIONS FOR STORAGE AND HANDLING:

Maximum storage temperature: 140°F. Keep containers closed not in use.
Do not contaminate drinking water, food or feed by storage or disposal.

***** IX - TOXICOLOGY INFORMATION *****

TOXICITY

No toxicity information is available for this specific material. The toxicity information provided is for ready-to-use dilutions of different EPA FIFRA registered formulations, R-82, S-21, and S-38, each diluted to produce concentrations between 600 ppm and 850 ppm of the same actives, Dialkyldimethylammonium chloride and Alkyldimethylbenzylammonium chloride, in the identical ratio.

ACUTE

For Stone Care International Formulation R-82, diluted 1:256 (850 ppm actives blend):

- skin irritation (rabbit): Essentially non-irritating.

For Stone Care International Formulation S-21, diluted 1:64 (850 ppm actives blend):

- eye Irritation (rabbit): Not an irritant with or without washing.

- skin irritation (rabbit): Non-irritant.

For Stone Care International Formulation S-38, diluted 1:64 (600 ppm actives blend):

- eye Irritation (rabbit): essentially non-irritant with or without washing.

- skin irritation (rabbit): Non-irritant.

***** X - MISCELLANEOUS AND REGULATORY INFORMATION *****

FEDERAL REGULATIONS:**TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS:**

This product is currently listed on the EPA TSCA 8(b) inventory list.

TSCA Section 12(b) Export Notification

Components present in this product which, if exported, could require either annual or one-time reporting under this regulation are as follows:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

***** X - MISCELLANEOUS AND REGULATORY INFORMATION (continued) *****

EPA REGULATION ON PESTICIDES

This is an EPA FIFRA registered pesticide (EPA Registration No. 6836-289-67967).
This material can only be used in the EPA registered application(s) noted on the
product label.

US FDA REGULATION ON FOODS - This product is regulated under the following section(s)
of the Code of Federal Regulations (CFR) when used in permitted food contact
applications:
21 CFR 178.1010

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of
1980 requires notification of the National Response Center
(Telephone 800-424-8802) in the event of a release of quantities of the
following hazardous materials contained in this product, if the release is
equal to or greater than the Reportable Quantities (RQs) listed in
40 CFR 302.4:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

SARA Title III, Sections 302/304 (Superfund Amendments and Reauthorization act of
1986) - This act requires emergency planning, including agency notification, for
possible release of the following components of this material, based upon the
Threshold Planning Quantities (TPQs) and release Reportable Quantities (RQs)
listed for the Components in 40 CFR 355:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

SARA Title III Sections 311/312 - This act requires reporting under the Community
Right-to-Know provisions due to the inclusion of the following components of this
material in one or more of the five hazard categories listed in 40 CFR 370:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Hazard *) Categories</u>
N,N-Dialkyl-N,N-dimethylammonium Chloride	68424-95-3	A
N-Alkyl-N,N-dimethyl-N-benzylammonium Chloride	68424-85-1	A

*) The five hazard categories are as follows: F= FIRE HAZARD; S= SUDDEN RELEASE OF
PRESSURE; R= REACTIVE; A= IMMEDIATE (ACUTE) HEALTH HAZARD; C= DELAYED (CHRONIC)
HEALTH HAZARD

SARA Title III Section 313 - This act requires submission of annual reports off the
releases of the following components of this material if the threshold reporting
quantities as listed in 40 CFR 372, are met or exceeded:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		